

20 DEC 2004

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RECP59840001	FOR FURTHER ACTION		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/GB 03/02691	International filing date (day/month/year) 20/06/2003	(Earliest) Priority Date (day/month/year) 21/06/2002	
Applicant APPLIED MATERIALS, INC			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

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International application No.

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Section III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

An end station for an ion implanter has a vacuum chamber (18) which receives an ion beam (19). The wafer holder (22) is mounted at the distal end (23) of a scanning arm (24) which has its proximal end (25) attached to the chamber wall (26). The scanning arm has at least two rotary joints (27,28) providing articulation of the arm (24) to permit movement of the wafer holder in two orthogonal scan directions in a scan plane transverse to the beam path (21) through the vacuum chamber. A scanning arm driver moves the substrate holder in the scan plane in a desired two-dimensional scan pattern relative to the beam path.

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International Application No

GB 03/02691

A. CLASSIFICATION OF SUBJECT MATTER

PC 7 H01J37/317

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01J B25J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 194 748 A (AITKEN DEREK) 16 March 1993 (1993-03-16) column 7, line 48 - column 9, line 7; figure 5	1,11
A	US 5 898 179 A (FARLEY MARVIN ET AL) 27 April 1999 (1999-04-27) cited in the application the whole document	
A	US 5 956 077 A (QURESHI IQBAL ET AL) 21 September 1999 (1999-09-21) column 3, line 16 - line 40; figures	1-11

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *S* document member of the same patent family

Date of the actual completion of the international search

9 February 2004

Date of mailing of the international search report

16/02/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

GB 03/02691

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5194748	A	16-03-1993	DE	69015616 D1	09-02-1995
			DE	69015616 T2	24-08-1995
			EP	0451247 A1	16-10-1991
			WO	9106972 A1	16-05-1991
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			EP	1012865 A1	28-06-2000
			JP	2001516151 T	25-09-2001
			TW	478005 B	01-03-2002
			TW	512390 B	01-12-2002
			WO	9913488 A1	18-03-1999
			US	6163033 A	19-12-2000
			US	6437351 B1	20-08-2002
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US 5956077	A	21-09-1999	US	5757419 A	26-05-1998
			CA	2223218 A1	02-06-1998
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